

The logo features a central red circle surrounded by several concentric yellow circles. From the top of the red circle, five yellow lines radiate upwards and outwards, each ending in a small arrowhead. From the bottom of the red circle, five yellow lines radiate downwards and outwards, each ending in a small arrowhead. The text "ENERGY CENTER OF WISCONSIN" is written in white, uppercase, sans-serif font across the middle of the logo.

ENERGY CENTER OF WISCONSIN

**Biobased Industry Opportunity Scan
Governor's Biobased Industry Consortium
June 28, 2005**

YOUR PARTNERS IN ENERGY RESEARCH, EDUCATION & CONSULTING

Project Approach

- Build on reliable work that has already been completed, especially the Wisconsin Biorefining Development Initiative (www.wisbiorefine.org)
- Focus the bulk of the team effort on critical near-term opportunities (5 years or less), reserving the remaining effort for a more qualitative characterization of longer-term prospects.
- Conduct facilitated discussions and interviews with subject matter experts to gather the most up-to-date information available and to supplement team expertise.
- Address opportunities for each of the following sectors: production agriculture, forestry, food processing and niche/other.
- Engage the Technical Project Team at each project phase, both to help shape the effort as we move forward and to review and contribute to draft work products.
- Narrow the final recommendations such that they present a manageable and coherent agenda for advancing Wisconsin's advantage in the emerging bioeconomy.

Five Phases

- Identification, screening and ranking options
- Detailed characterization
- Recommendations for competitive advantage in Wisconsin
- Final report
- Outreach to Wisconsin businesses, government officials, public interest groups and the general public

Key Principles

- **Close collaboration with DATCP**
- **Close collaboration with TPT**
- **Provide ongoing reports to consortium**
- **Develop workplan for each phase upon completion of the previous phase**

Phase One-Overview and Opportunity Scan Analysis

- Literature review
- Characterize market segments
- Policy and economic development white paper
- Draft and characterize resource-products chains (RPCs)
- Screen and rank RPCs by industry cluster: production agriculture, food processing, forest products, other.
- Selection of priority RPCs for further analysis
- Review by TPT and revision
- Presentation to Governor's Consortium
- Draft phase two workplan

Phase One Progress

- Screening process will be completed by July 1st
- Individuals RPCs will be aggregated in suites and sorted by market segment and feedstock classification
- Over 600 RPCs evaluated
- Sample matrix

	Primary Product	Residual Product
Crop Production	Forage grasses > Fermentation > Specialty chemicals , e.g., aspartic acid and sorbitol	Corn stover > Fiber composites manufacturing > Durable building materials
Forestry	Wood chips > Fermentation > Ethanol	Pulp mill black liquor > Gasification > Renewable Fischer-Tropsch fuels
Food Processing	N/A	Whey > Anaerobic digestion > Biogas
Animal	N/A	Inedible offal > Lipid extraction for esterification > Biodiesel
Other	N/A	Municipal wood waste > Fast pyrolysis > Char for charcoal

Primary Contacts

■ Contractor team

- Team leader – Steve Brick
 - 608-238-8276, extension 130
 - 608-332-5711 (cell)
 - sbrick@ecw.org
- Team support – Sherry Benzmilller
 - 608-238-8276, extension 121
 - sbenzmiller@ecw.org

